

Sealing Bellows

Patent Claims

1. A sealing bellows of a ball-and-socket joint, with a ball, a pivot (6) originating from the ball and with a housing accommodating the ball, the sealing bellows extending between said pivot
5 (6) and the ball housing and the sealing bellows having a pivot-side sealing area (12), a jacket area (13) and a housing-side sealing area, and said jacket area (13) consisting of an elastomeric material,
characterized in that said pivot-side sealing area (12) of the sealing bellows consists of a material that differs from the material used for said jacket area (13) of said sealing bellows.
- 10 2. A sealing bellows in accordance with claim 1, characterized in that the material used for said pivot-side sealing area (12) is an elastomer.
3. A sealing bellows in accordance with claim 1 or 2, characterized in that both said pivot-side sealing area and the housing-side sealing area consist of an elastomeric material different from the material of said jacket area (13).
- 15 4. A sealing bellows in accordance with one of the above claims, characterized in that at least one said sealing area (12), and preferably both sealing areas, has/have a non-positive and/or positive-locking connection or connection in substance with said jacket area (13).

5. A sealing bellows in accordance with one of the above claims, characterized in that said jacket area (13) has at least one reinforcing element (4), which is preferably arranged close to the at least one said sealing area (12).

6. A sealing bellows in accordance with one of the above claims, characterized in that at least one said sealing area (12) has at least one reinforcing element (3), which is preferably arranged close to said jacket area (13).

7. A sealing bellows in accordance with one of the above claims 5 and 6, characterized in that said reinforcing element (3, 4) consists of plastic and/or metal.

8. A sealing bellows in accordance with claim 7 above, characterized in that said reinforcing element (3, 4) is arranged rotationally symmetrically in relation to said pivot (6).

9. A sealing bellows in accordance with one of the above claims, characterized in that said jacket area (13) and/or said sealing area (12) have at least one sealing lip (8, 9), which makes possible the sealing of the interior space of the ball-and-socket joint at said pivot (6) or at the housing.

10. A sealing bellows in accordance with one of the above claims, characterized in that an additional sealing element (10) is provided at least at one said sealing area (12).

11. A sealing bellows in accordance with one of the above claims, characterized in that at least

one said centering element (11) is provided at least between said pivot (6) and said pivot-side sealing area (12) and/or between the housing and the housing-side sealing area.

12. A sealing bellows in accordance with one of the above claims, characterized in that said jacket area (13) consists of chloroprene rubber, preferably with a hardness of approx. 50 ± 10 Shore A.

13. A sealing bellows in accordance with one of the above claims, characterized in that at least one said sealing area (12) consists of a nitrile rubber, preferably with a hardness of approx. 70 ± 10 Shore A.

Figure 1

through

Figure 9